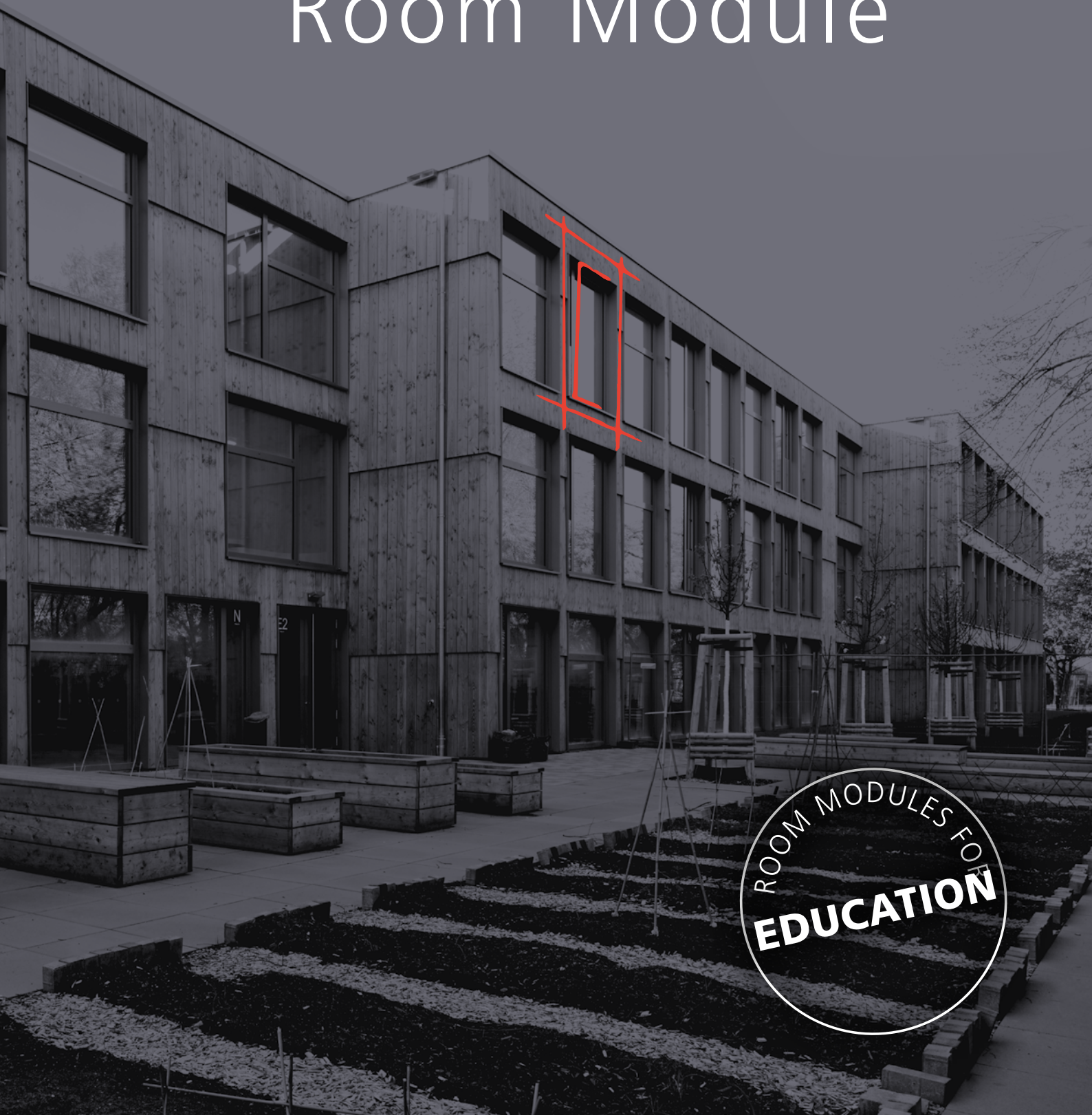


KAUFMANN
BAUSYSTEME

constructively brave

Star Pupil Room Module



ROOM MODULES FOR
EDUCATION



Room Modules: A Model Case for Efficiency and Cost Awareness in Construction.

Educational facilities are changing not only in their tasks, concepts, and organizational structures, but also in the form and nature of new school construction and renovation. The challenge is to align school design considerations with the desired pedagogical and institutional developments at each site. Because construction must keep learning too. The advantage of modular construction over conventional methods is that trades work hand in hand, and often in parallel. Construction time for modular buildings is on average 70% shorter.

Open room modules, as used in school construction, are designed for larger building applications. A typical classroom requires three open room modules; depending on the building design, timber modular systems can also be combined with one another.

Room Modules That Open Learning Spaces and Shape the Future.

Construction Must Keep Learning Too.

Schools are changing not only in their tasks, concepts, and organizational structures, but also in the form and nature of new school construction and renovation. The challenge is to align school design considerations with the desired pedagogical and institutional developments at each site.

School construction must be guided by its pedagogical vision – the educational concept should therefore be the very first step of any school building project. Schools are not simply buildings where students and teachers spend time; they are spaces designed to support pedagogy spatially – the modular room as the third educator.

Form Follows Function.

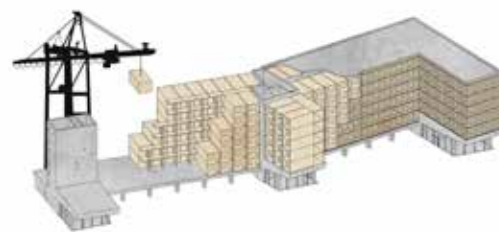
In numerous outstanding education projects, we have demonstrated the exceptional performance of prefabricated timber modules – much to the delight of our clients, who appreciate the short timeline from planning to completion. Students appreciate it too: They benefit from the high-quality environment created by exposed wood surfaces and functional interior furnishings- spaces that support both focused study and collaborative interaction.





We See Planning as Digital Thinking for Efficient Execution.

The modular planning process differs from conventional construction in one fundamental respect: timing. In timber modular construction, critical decisions are made very early. A key success factor is engaging an experienced team of architects and specialist engineers from KAUFMANN BAUSYSTEME during the early design phase – working collaboratively to develop an optimized building and providing the owner with cost certainty from the outset. Based on the architectural and engineering design, we generate a 3D-model and digitize every individual module. Using



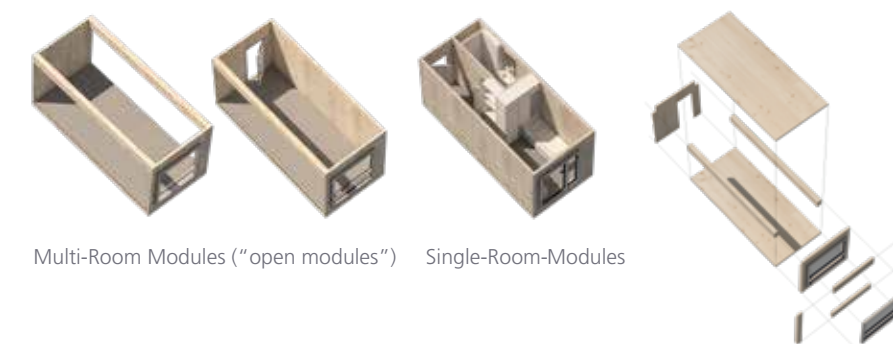
QR codes, we track each module from prefabrication through installation, documenting every step through final inspection – ensuring complete information transparency even after the building is commissioned.

Maximum Prefabrication. Exceptional Craftsmanship.

At our production facilities in Kalwang, Austria, as well as Berlin, we manufacture across 215,000 sq ft of floor space up to 4,000 room modules per year, with a prefabrication degree of up to 95 % – for a wide range of applications including schools, childcare centers, hotels, residential developments, social facilities, and office buildings.

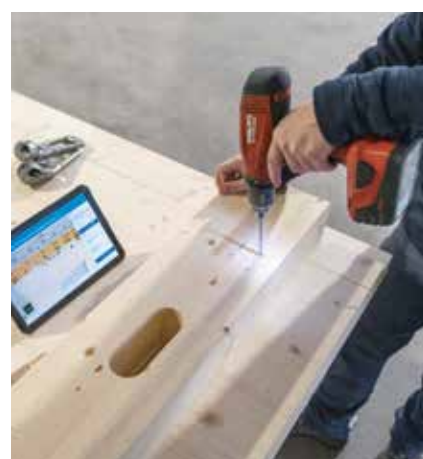
Depending on the intended use, room modules are fully finished on the interior with all surface finishes, windows, and doors, and complete with all plumbing and sanitary fixtures.

Furniture can be installed upon request. Each room module is tracked through our digital work recording and quality control system before leaving our facilities – delivered just-in-time to the job site.



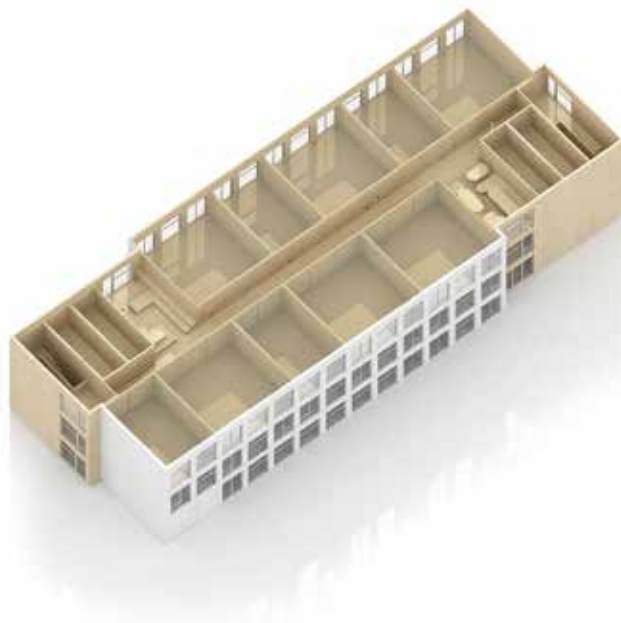
Three Module Types, Endless Applications.

The single-room module enables the highest degree of prefabrication and lends itself to micro-unit configurations. Semi-open and open multi-room modules are deployed wherever larger-scale spaces are required. Modularity is not constrained by fixed grid dimensions, making it ideal for virtually unlimited design flexibility. Of course, efficient transport logistics define a practical framework that should be considered during the planning phase.





Skipping a grade saves a lot of time.



Design Flexibility Sets the Standard.

The standard design for the 3-story extension building is designed for flexible use not only in elementary schools, but also in secondary schools and high schools.

It provides 416 student places for elementary school sites and includes 16 homeroom classrooms, 8 breakout rooms, 2 staff rooms, 1 serving counter, and 1 cafeteria with 100 seats. The building provides fully accessible entry via an elevator. The planned construction time is 4 months from the ready-to-build handover of the site. Total cost is approximately € 6.4 million. A total of 32 of these "Timber Modular Extension Buildings" (HOMEB) are being built across Berlin.



Skipping a grade saves a lot of time.

Quick on the Uptake

The so-called “fast-build school” in the Marzahn-Hellersdorf district was completed in just under a year and provides space for 550 students.

290 prefabricated timber modules were installed, each with floor-to-ceiling windows. Many of the 32 classrooms have a square floor plan and consist of three modules each. Alongside the clearly defined spatial layout, colorful surfaces in the common areas and stairwells – including sunshine yellow, turquoise, and ultramarine blue – create striking visual accents. A centrally positioned open staircase expands the communication and social space for

users. The adjoining gymnasium can accommodate three classes simultaneously. Cross-laminated timber panels clad with aluminum trapezoidal sheeting and timber beams form two interlocking building volumes for the gymnasium and ancillary spaces.

**INTEGRATED SECONDARY SCHOOL
MAHLSDORF, BERLIN (D)**
GFA approx. 100,750 sq ft² | 256 Modules
Owner: Senatsverwaltung für Stadtentwicklung & Wohnen, Berlin
Architect: nkbak, Frankfurt am Main



Ground-breaking

Construction 11 MONTHS

Occupancy

Concrete Work | Module Production | Module Installation | Completion



Skipping a grade saves a lot of time.

Modular System Shortens Planning and Construction Time

The Kita Breisacher Weg is part of a framework agreement with the City of Heidelberg covering the construction of multiple daycare projects throughout the city. The same module types are combined into different floorplans at different locations.

This modular system approach significantly optimizes both planning and construction time. The six-group daycare facility provides space for up to 100 children in total. A particular challenge was meeting the building's high energy performance requirements (Passive House standard) and the complex building systems technology that entails.



KITA BREISACHER WEG, HEIDELBERG (D)

GFA approx. 14,530 sq ft² | 60 Modules

Owner: City of Heidelberg Building Authority

Architect: AAG LoebnerSchäferWeber, Freue Architekten GmbH





Hotel



Student Housing



Office



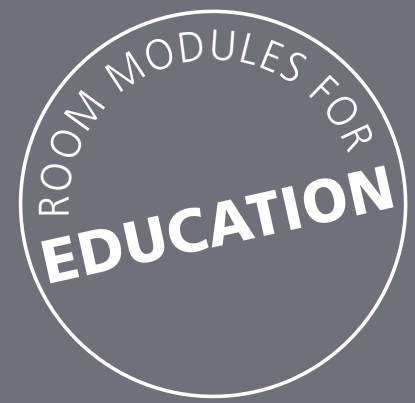
Education



Social Centers



Residential



The Future of Construction Is Already Our Reality.

We are a general contractor for sophisticated timber modular construction projects. We deliver straightforward, reliable, and collaborative execution for both public and private clients. We assume project responsibility at an early stage and serve as a development partner for architects and owners. This early project involvement guarantees our clients advance certainty on both cost and schedule. Through our function-driven processes – spanning planning, prefabrication, construction, and commissioning – we execute every step to the highest standard of quality.

80+

Construction Experts

4+

Locations

85+

Completed Projects

17,500+

Modules Installed

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KAUFMANN
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Discover
more exciting
projects and learn
more about us ...